

Fuel systems

Monitoring fuel systems is a necessary component of mining operations. Because MineSuite uses the same hardware and software for a fuel system as with fleet monitoring, an operation can expand with minimal cost in relation to duplication of system components, software development and system configuration.

Maptek's recent upgrade of the fleet and fuel system at Anglo Coal's German Creek mine in Queensland is a good example. A fuel reconciliation system has been integrated into their ERP, providing the necessary corporate level integration.

Maptek's alliance with the AFS group has enabled a fully integrated system, complete with automated vehicle ID, wireless LAN technology, advanced electronics and high level software, to be provided by a single supplier, removing interface risks and liabilities for customers.

Benefits of the fuel system include:

- seamless management of total diesel resources
- access control via positive vehicle recognition at all fuel dispensing points
- each fuel transaction recorded remotely into the system
- remote real-time link to MineSuite production and fuel management via active hub at each dispenser
- automatic collection of asset utilisation in SMU and odometer readings for heavy vehicles
- electronic consolidation of all transaction data from static & service truck dispensing
- fuel burn efficiency control on all vehicle plant and equipment
- remote real-time monitoring of all bulk storage of diesel
- target and safety levels control through remote monitoring system with alarms
- proof-of-delivery system to individual tanks to control all diesel receipts
- overfill and leak detection alarms
- total fluid reconciliation sent electronically every 24 hrs
- electronic rebate reconciliation



Automated Fleet Systems Group Australia Pty Ltd (AFS) distributes the FuelOmat product, which is offered as part of MineSuite's fuel management solution. FuelOmat automatically monitors odometer and engine hour readings at refuelling, generating a detailed report on fuel usage. This allows enhanced fuel management, convenient accounting, effective maintenance scheduling and increased efficiency of fleet administration. The main feature is the ability to function remotely, downloading information from a scattered fleet (even country-wide) and consolidating the data daily, or sending real-time SMS when anomalies are detected.

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